

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S4	20	cool\$3 with (flow\$3 or fluid) and (perpendicular\$4 or orthogonal\$3) and ((fuel or electrochemical) near1 cell)	JPO	ADJ	ON	2009/08/19 09:32
S5	2	cool\$3 with (flow\$3 or fluid) and (perpendicular\$4 or orthogonal\$3) and ((fuel or electrochemical) near1 cell)	FPRS; EPO	ADJ	ON	2009/08/19 09:45
S6	37	cool\$3 with (flow\$3 or fluid) and (perpendicular\$4 or orthogonal\$3) and ((fuel or electrochemical) near1 cell)	DERWENT	ADJ	ON	2009/08/19 09:47
S7	18	cool\$3 with (flow\$3 or fluid) same (perpendicular\$4 or orthogonal\$3) same ((air or oxidant or oxygen) or (fuel or hydrogen) or gas) and ((fuel or electrochemical) near1 cell)	USOCR	ADJ	ON	2009/08/19 10:18
S8	362	(cool\$3 with (flow\$3 or fluid)) same (perpendicular\$4 or orthogonal\$3) same ((air or oxidant or oxygen) or (fuel or hydrogen) or gas) and ((fuel or electrochemical) near1 cell)	US-PGPUB; USPAT	ADJ	ON	2009/08/19 10:23
S11	6	JP-01302670-\$.did. or JP-60177566-\$.did. or JP-62223979-\$.did. or EP-0929112-\$.did.	JPO; DERWENT	ADJ	ON	2009/08/19 12:00

S12	30	((fuel or electrochemical) near1 cell) and (cool\$3 same (countercurrent\$2 or counter near1 current \$2))	JPO; DERWENT	ADJ	ON	2009/08/19 12:00
S13	160	cool\$3 with (perpendicular or orthogonal) with (gas or oxidant or fuel or hydrogen or oxygen) and (fuel cell)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:05
S14	25	S13 and (countercurrent\$2 or counter near1 current \$2 or serpentine) same cool\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:07
S15	31	("4476199"   "4876162"   "4973530"   "5034288"   "5064732"   "5262249"   "5322744"   "5346780"   "5366818"   "5382478"   "5503944"   "5534363"   "5776624"   "5853909"   "5858567"   "5858569").PN. OR ("6066408").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:20
S16	8	JP-2002164075-\$.did. or JP-2002319426-\$. did. or JP-09063625-\$. did. or JP-60147164-\$. did.	JPO; DERWENT	ADJ	ON	2009/08/19 12:21
S18	209	"429".clas. and (countercurrent\$2 or counter near1 current \$2 or serpentine) with cool\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:31
S19	201	S18 and (fuel or electrochemical) near1 cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:31
S20	12	("4988583"   "5858569"   "6274262").PN. OR ("6461754").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:43

S21	7	("4175165"   "6096450"   "6270917"   "6420061"   "6524735").PN. OR ("6884536").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:57
S22	5	("20030215692"   "4345008"   "6322915"   "6572995"   "6723461").PN. OR ("7150929").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 12:59
S23	10	("3994748"   "5547776"   "5879826"   "6322915").PN. OR ("6572995").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/19 13:04
S24	292	bipolar same (serpentine or counter near1 current)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:27
S25	213	S24 and fuel cell	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:27
S26	157	S25 and membrane electrode assembl\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:28
S27	21	S26 and cool\$3 with (serpentine or counter near1 current)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:51
S28	53	("5108849"   "5300370"   "5514487"   "5686199"   "5776624"   "5981098").PN. OR ("6099984").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:52
S29	34	S28 and coolant	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 07:58
S30	213	fuel cell and coolant same opposite with (end or side) same (inlet and outlet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:02
S31	213	fuel cell and coolant same opposite with (end or side) same (inlet same outlet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:02
S32	118	fuel cell and coolant same opposite with (end or side) with (inlet same outlet)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:02

S33	59	fuel cell and coolant same opposite with (end or side) with (inlet same outlet) same (plate or flow near1 field)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:02
S34	213	fuel cell and coolant same (inlet same outlet) same (opposite with (end or side))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:05
S35	87	fuel cell and coolant with (inlet with outlet) with (opposite with (end or side))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:05
S36	43	fuel cell and coolant with (inlet with outlet) with (opposite with (end or side)) same plate	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/24 08:06

**8/ 24/ 2009 10:26:52 AM**

**H:\ My BackUp\ Examiner Docs - Active & Archived\ Examined Cases\ 10520472.fuel cell stack with counterflow cooling sys\ rce1, after faom\ 520472, east\_rce1 after faom\_090818(t1).wsp**